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L8	0	optimal same code same sequenc$2 and "717"/$.ccls. and "706"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/22 14:43
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L4	6	theorem adj prov$4 and nelson.in. Rev all	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/22 14:26
L3	52	optimal same code same sequenc$2 and "717"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/22 14:25

L2	27	(extract or generate) same optimal adj code Randall	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/22 14:24
L1	81	theorem adj prover Scandall	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/22 14:24

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Detlefs, D., **Nelson**, G., Saxe, JB: Simplify: A **theorem prover** for program check-. ing. Technical Report HPL-2003-148, HP Labs (2003). 4. Ball, T., Cook, B., ...
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1 Denali: a goal-directed superoptimizer

Rajeev Joshi, Greg Nelson, Keith Randall

May 2002 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation**, Volume 37 Issue 5

Full text available: pdf(179.77 KB) Additional Information: full citation, abstract, references, index terms

This paper provides a preliminary report on a new research project that aims to construct a code generator that uses an automatic theorem prover to produce very high-quality (in fact, nearly mathematically optimal) machine code for modern architectures. The code generator is not intended for use in an ordinary compiler, but is intended to be used for inner loops and critical subroutines in those cases where peak performance is required, no available compiler generates adequately efficient code, ...

Keywords: optimizing compiler, superoptimizer

2 AFFIRM summary

Susan L. Gerhart

July 1981 **ACM SIGSOFT Software Engineering Notes**, Volume 6 Issue 3

Full text available: pdf(684.52 KB) Additional Information: full citation, references

3 Consistency management in a project management assistant

Xiaolei Qian, Richard Jullig, Marilyn Daum

October 1990 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fourth ACM SIGSOFT symposium on Software development environments**, Volume 15 Issue 6

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, index terms

Object management systems have been identified as the core of object-oriented software development environments. One of the most important objectives of object management systems is to maintain consistency between the vast amount of interrelated objects, which is generated, accessed, and manipulated throughout the software life cycle. Consistency management in such systems is beyond the reach of conventional database technology due to the complex structure and the incompleteness of data, th ...

4

The LOCKSS peer-to-peer digital preservation system
Petros Maniatis, Mema Roussopoulos, T. J. Giuli, David S. H. Rosenthal, Mary Baker
January 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1
Full text available: pdf(715.30 KB) Additional Information: full citation, abstract, references, index terms

The LOCKSS project has developed and deployed in a world-wide test a peer-to-peer system for preserving access to journals and other archival information published on the Web. It consists of a large number of independent, low-cost, persistent Web caches that cooperate to detect and repair damage to their content by voting in "opinion polls." Based on this experience, we present a design for and simulations of a novel protocol for voting in systems of this kind. It incorporates rate l ...

Keywords: Rate limiting, digital preservation, replicated storage

5 Enhancing cleanroom techniques with refinement calculus
Michael R. Donat
November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(152.85 KB) Additional Information: full citation, abstract, references, index terms

A refinement calculus is a mathematical technique that provides a mechanism for rigorously transforming specifications into executable programs in a step-wise manner. A by-product of this technique is a formal proof of correctness of both the implementation and the design. These step-wise and rigorous aspects make this an attractive method for reducing software development costs and mitigating risk.The cleanroom technique has been quite successful as a development method [4]. However, it does no ...

6 Building knowledge base management systems
John Mylopoulos, Vinay Chaudhri, Dimitris Plexousakis, Adel Shrufi, Thodoros Topologlou
December 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 4
Full text available: pdf(403.22 KB) Additional Information: full citation, abstract, citings, index terms

Advanced applications in fields such as CAD, software engineering, real-time process control, corporate repositories and digital libraries require the construction, efficient access and management of large, shared knowledge bases. Such knowledge bases cannot be built using existing tools such as expert system shells, because these do not scale up, nor can they be built in terms of existing database technology, because such technology does not support the rich representational structure and infer ...

Keywords: Concurrency control, Constraint enforcement, Knowledge base management systems, Rule management, Storage management

7 Modeling methodology b: Simulation and verification I: from simulation to verification (and back)
Harald Rueß, Leonardo de Moura
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Full text available: pdf(198.00 KB) Additional Information: full citation, abstract, references

Symbolic evaluation is the execution of software and software designs on inputs given as symbolic or explicit constants along with constraints on these inputs. Efficient symbolic evaluation is now feasible due to recent advances in efficient decision procedures and symbolic model checking. Symbolic evaluation can be applied to partially implemented descriptions and provides wider coverage and greater assurance than testing and traditional

simulation alone. Unlike full formal verification, sym ...

8 Tools and transformations—rigorous and otherwise—for practical database design
Arnon Rosenthal, David Reiner
June 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 2

Full text available: pdf(3.19 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe the tools and theory of a comprehensive system for database design, and show how they work together to support multiple conceptual and logical design processes. The Database Design and Evaluation Workbench (DDEW) system uses a rigorous, information-content-preserving approach to schema transformation, but combines it with heuristics, guess work, and user interactions. The main contribution lies in illustrating how theory was adapted to a practical system, and how the consistency ...

Keywords: applications of database theory, computer-aided software engineering, data model translation, database design, database equivalence, design heuristics, entity-relationship model, heuristics, normalization, view integration

9 System design methodologies and experiences: Low power storage cycle budget distribution tool support for hierarchical graphs
Erik Brockmeyer, Arnout Vandecappelle, Sven Wuytack, Francky Catthoor
September 2000 **Proceedings of the 13th international symposium on System synthesis**

Full text available: pdf(110.75 KB) Additional Information: full citation, abstract, references, citings

In data dominated applications, like multi-media and telecom applications, data storage and transfers are the most important factors in terms of energy consumption, area and system performance. Several steps which optimize these costs are present in our systematic Data Transfer and Storage Exploration methodology. In the important step discussed in this paper, the cycle budget available for background storage transfers is globally distributed over the application's memory accesses that are typic ...

10 Systematic cycle budget versus system power trade-off: a new perspective on system exploration of real-time data-dominated applications
Erik Brockmeyer, Arnout Vandecappelle, Francky Catthoor
August 2000 **Proceedings of the 2000 international symposium on Low power electronics and design**

Full text available: pdf(218.02 KB) Additional Information: full citation, abstract, references, citings, index terms

In contrast to current design practice for (programmable) processor mapping, which mainly targets performance, we focus on a systematic trade-off between cycle budget and energy consumed in the background memory organization. The latter is a crucial component in many of todays designs, including multi-media, network protocols and telecom signal processing. We have a systematic way and tool to explore both freedoms and to arrive at Pareto charts, in which for a given application the lowest ...

11 Strategic directions in software engineering and programming languages
Carl Gunter, John Mitchell, David Notkin
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Full text available: pdf(200.92 KB) Additional Information: full citation, references, citings, index terms

12 DAIDA: an environment for evolving information systems

M. Jarke, J. Mylopoulos, J. W. Schmidt, Y. Vassiliou
January 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 1

Full text available: pdf(3.63 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

Keywords: knowledge engineering, mapping assistant, multi-level specification, repository, software information system, software process model

13 Technical papers: software design: Sound methods and effective tools for engineering modeling and analysis
David Coppit, Kevin J. Sullivan
May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Full text available: pdf(1.33 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Modeling and analysis is indispensable in engineering. To be safe and effective, a modeling method requires a language with a validated semantics; feature-rich, easy-to-use, dependable tools; and low engineering costs. Today we lack adequate means to develop such methods. We present a partial solution combining two techniques: formal methods for language design, and package-oriented programming for function and usability at low cost. We have evaluated the approach in an end-to-end experiment. We ...

14 Special issue: AI in engineering
D. Sriram, R. Joobbani
January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

15 Programming in an Interactive Environment: the ``Lisp" Experience
Erik Sandewall
January 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 1

Full text available: pdf(3.25 MB) Additional Information: full citation, references, citings, index terms

16 Coming to grips with a RISC: a report of the progress of the LOW RISC design group
Jonathan W. Mills
March 1987 **ACM SIGARCH Computer Architecture News**, Volume 15 Issue 1

Full text available: pdf(713.42 KB) Additional Information: full citation, index terms

17 Query processing in deductive databases with incomplete information

Tomasz Imielinski
June 1986 **ACM SIGMOD Record , Proceedings of the 1986 ACM SIGMOD international conference on Management of data**, Volume 15 Issue 2

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms

We study here automated deduction in databases in the presence of various types of inference rules of the form of Horn Clauses with Skolem functions. These inference rules are typical for databases with incomplete information. We demonstrate a number of results related to processing of conjunctive queries for different types of database intensions. In particular, we show that when a database intension is built from possibly cyclic inclusion dependencies and view definitions any conjunctive ...

18 NRL invitational workshop on testing and proving: two approaches to assurance
Carl E. Landwehr, Susan L. Gerhart, John McLean, Donald I. Good, Nancy Leveson
October 1986 **ACM SIGSOFT Software Engineering Notes**, Volume 11 Issue 5

Full text available: pdf(1.45 MB) Additional Information: full citation, index terms

19 Testing and Fault-Tolerance: An error simulation based approach to measure error coverage of formal properties
P. Azzoni, A. Fedeli, F. Fummi, G. Pravadelli, U. Rossi, F. Toto
April 2002 **Proceedings of the 12th ACM Great Lakes symposium on VLSI**

Full text available: pdf(119.70 KB) Additional Information: full citation, abstract, references, index terms

Many approaches have been proposed for digital system verification, either based on simulation strategies or on formal verification techniques. Both of them show advantages and drawbacks and new mixed approaches have been presented in order to improve the verification process. Specifically, the adoption of formal methods still lacks a coverage metrics to let the verification engineer get a measure of which portion of the circuit is already covered by the written properties that far and which par ...

Keywords: error coverage, error simulation, property checking

20 Software assurance by bounded exhaustive testing
Kevin Sullivan, Jinlin Yang, David Coppit, Sarfraz Khurshid, Daniel Jackson
July 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 29 Issue 4

Full text available: pdf(202.97 KB) Additional Information: full citation, abstract, references, index terms

The contribution of this paper is an experiment that shows the potential value of a combination of selective reverse engineering to formal specifications and bounded exhaustive testing to improve the assurance levels of complex software. A key problem is to scale up test input generation so that meaningful results can be obtained. We present an approach, using Alloy and TestEra for test input generation, which we evaluate by experimental application to the Galileo dynamic fault tree analysis too ...

Keywords: TestEra, automated test case generation, bounded exhaustive testing, formal methods, reverse engineering, specification-based testing

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